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Quantum mechanics also dictates that even without extraneous light ... from enhanced charge transport to site-selective chemical reactivity across a range of molecular and solid-state materials.

Manipulating matter by strong coupling to vacuum fields

Jahanpanah, J. and Esmaeilzadeh, M. 2016. The stability conditions of diatomic molecules via analogy with the stability theory of lasers. Molecular Physics, Vol. 114 ...

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## Advanced Quantum Mechanics

Quantum mechanics ... and the problem of molecular recognition in olfaction, the book is ideal for advanced undergraduate and graduate students in physics, biology and chemistry seeking to understand ...

## Quantum Effects in Biology

Specifically, it could be to model molecular dynamics, which is important for understanding chemical reactions and the action of drugs. Quantum mechanics has always been a puzzle because of the ...

## When Parallel Worlds Collide . . . Quantum Mechanics Is Born

Entos, Inc (["Entos" or "the Company"]), the creator of a cutting-edge

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platform combining AI-driven technology and automated synthetic development to design small-molecule therapeutics, today announced ...

## Entos Raises \$53 Million Series A Round Led by Coatue and Catalio

It's a system of many parts that behaves according to the rules of quantum mechanics ... improve our understanding of reactions at the molecular level. The first approach involves building ...

## Quantum computers are already detangling nature's mysteries

Each oxygen has four nearest neighbors and the angle between nearest neighbors is 109.5 degrees. It takes only a minor distortion ... Schroedinger was famous for his contributions to quantum

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mechanics ...

## Nanoscale: Visualizing an Invisible World

Pure quantum systems can undergo phase transitions analogous to the classical phase transition between the liquid and gaseous states of water. At the quantum level, however, the particle spins in ...

## Quantum phase transition discovered in a quasi-2D system consisting purely of spins

A computer architecture based on quantum mechanics, the science of atomic ... and one of its more auspicious uses is the analysis of molecular interactions to uncover nature's mysteries.

quantum computing

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□ This research shows that a large object, which started out being very well described by classical physics, was eventually prepared close to a state that can only be described accurately by quantum ...

## Quantum state in a large object

Resonant inelastic x-ray scattering (RIXS) provides a powerful example of particle-wave duality in quantum mechanics ... solids with a quasi-molecular electronic structure such as insulating Ba<sub>3</sub>CeIr ...

## Resonant inelastic x-ray incarnation of Young's double-slit experiment

In a prior study in pre-preprint at Chemrxiv, Jeremy Smith of ORNL used all-atom molecular dynamics to ... were then run



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through the gamut of quantum mechanics-based ranking refinement and binding ...

## COVID gets quantum treatment for drug discovery

There are two MD1200 storage units in a RAID 5 configuration that provide 40 ... Examples include molecular dynamics simulations, computational fluid dynamics, quantum mechanics/computational ...

## Gemini Computing Cluster

The vast majority of American college students attend two thousand or so private and public institutions that might be described as the Middle--reputable ...

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## Abelard to Apple: The Fate of American Colleges and Universities

Researchers will be trained the interdisciplinary skills of large-scale material processing, electrochemical characterization, in-situ experimentation, finite element modeling, and ...

## Power and Energy Research

5 Surface Science: Surface phenomena and reactions ... 6 Chemical Physics/Physical Chemistry: Theoretical chemistry, quantum/statistical mechanics, and molecular dynamics; optical, laser, ultrafast, ...

## PRF Panels and Areas of Research Support

In additional layers, the electrons and the holes are transported to the electrodes to produce electricity, according to principal

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investigator Nitin Padture, professor of Engineering and director of

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